

601 INCIDENTAL CONCRETE CONSTRUCTION

601.01 BUS STOPS AND ISLANDS

(A) DESCRIPTION. Work consists of PCC bus stops, directional islands for channelization of traffic, and pedestrian islands, constructed on bituminous pavement, PCC pavement, or on a prepared base course in conjunction with new construction. Except as herein stated, all requirements specified in 501 for "Reinforced Portland Cement Concrete Pavement" are applicable to this specification.

(B) MATERIALS. The materials shall meet the requirements specified in 501.02.

(C) COMPOSITION. The proportions of materials for concrete shall meet the requirements of 817, Class E.

(D) TESTING. The concrete shall meet the requirements of 501.15.

(E) CONSTRUCTION REQUIREMENTS. Construction shall conform to the requirements described in 501 with the following exceptions, changes, or additions:

(1) PREPARING PAVEMENT FOR BUS STOPS. Where bus stops are to be constructed on bituminous pavement, the bituminous surface course and binder course shall be removed and the area of the concrete base on which the islands are to be constructed shall be cleaned and roughened as directed by the Engineer.

(2) PREPARING PAVEMENT OR SOILS BASE FOR DIRECTIONAL AND PEDESTRIAN ISLANDS. Where the islands are to be constructed on bituminous pavement, the bituminous surface course and binder course shall be removed and the area of the concrete base on which the islands are to be constructed shall be cleaned and roughened as directed by the Engineer.

Where the islands are to be constructed on PCC pavement, a groove 1 foot wide, 2 inches deep and approximately 6 feet in length shall be cut into the surface of the existing pavement at intervals of 6 feet for the full length of the island and shall be on the approximate center line of the proposed location of the island. The surface shall be thoroughly cleaned before placing concrete.

When islands are to be constructed on the soils base or in conjunction with new construction, the work shall be done in accordance with requirements for new reinforced PCC pavement or sidewalk construction, whichever, as determined by the Engineer, is applicable, except that the density of the soils base shall not be less than 95 percent of maximum density.

(3) REINFORCEMENT. (a). Bus Stops. When bus stops are constructed on a soils base and extend for the full depth of the pavement, wire fabric reinforcement weighing 50 pounds per 100 square feet shall be used. When the bus stops are constructed upon concrete base previously placed, wire fabric reinforcement weighing 30 pounds per 100 square feet shall be used.

(b) Directional and Pedestrian Islands. Wire fabric reinforcement weighing 30 pounds per 100 square feet shall be placed in the islands approximately 2 inches below the surface and shall extend for the full width and length thereof.

(4) PLACING ANCHOR SOCKETS. Anchor sockets for reflector posts shall be installed in the directional and pedestrian islands as shown on the plans. They shall be placed in such a manner as to project above the surface for a distance of 2 inches. The cost of this work shall be included in the contract unit price per cubic yard for concrete for construction of bus stops, directional islands and pedestrian islands.

(5) FORMING JOINTS. Where PCC bus stops, directional islands, or pedestrian islands are constructed upon PCC pavement or base, the joints in the bus stop or islands shall be placed at the same locations and be of the same type as the joints in the pavement or base. Where the bus stops or islands are constructed upon soils base, the joints shall be placed at the same locations, and be of the same type as the adjacent concrete against which the bus stops or islands are placed.

(6) SEALING JOINTS. All joints in bus stops, directional islands, and pedestrian islands shall be sealed in conformance with 501.19.

(7) FINISHING. Bus stops shall be finished in accordance with the requirements specified in 501.13. The surface of the islands shall be finished in accordance with 608.01(C)(6) except that the surface shall not be marked in 3 foot squares nor will transverse contraction joints be formed at 12 foot intervals. The faces of the islands shall be finished in accordance with the requirements specified in 609.01(E)(9).

(F) MEASURE AND PAYMENT. The unit of measure for PCC Bus Stops, Directional Islands, and Pedestrian Islands will be the cubic yard. The number of cubic yards of concrete computed from field measurements will be paid for at the contract unit price per cubic yard, which payment will include furnishing, hauling, and placing all materials, including joints, reinforcement, sealing of joints, and curing, and for furnishing all equipment, tools, labor and incidentals necessary to complete the work.